Unit: mm

TOSHIBA Diode Silicon Epitaxial Schottky Barrier Type

1SS392

High Speed Switching Application

• Low forward voltage $: V_F(3) = 0.54V \text{ (typ.)}$ • Low reverse current $: I_R = 5\mu\text{A (max)}$

• Small package : SC-59

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse Voltage	VRM	45	V
Reverse voltage	VR	40	V
Maximum (peak) forward current	IFM	300 *	mA
Average forward current	lo	100 *	mA
Surge current (10ms)	IFSM	1 *	Α
Power dissipation	Р	150	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55 to 125	°C
Operating temperature range	T _{opr}	-40 to 100	°C

3. ANODE 2. ANODE 3. CATHODE

S-MINI

JEDEC TO-236MOD

JEITA SC-59

TOSHIBA 2-3F1S

2.9 ± 0.2

A

Weight: 12 mg (typ.)

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in

temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings. Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

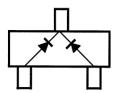
* : Unit rating. Total rating = unit rating \times 1.5

Electrical Characteristics (Ta = 25°C)

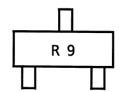
Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Forward voltage	VF (1)	I _F = 1mA	_	0.28	_	
	VF (2)	I _F = 10mA	_	0.36	_	V
	VF (3)	I _F = 100mA	_	0.54	0.60	
Reverse current	IR	V _R = 40V	_	_	5	μΑ
Total capacitance	CT	$V_R = 0 V, f = 1MH_Z$	-	18	25	pF

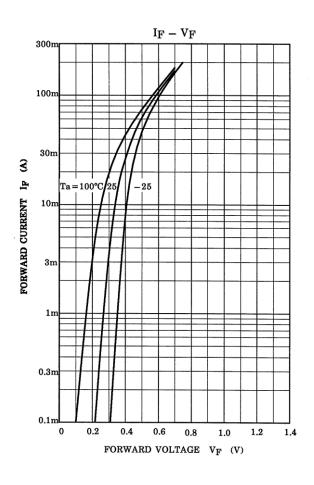
Start of commercial production 1994-12

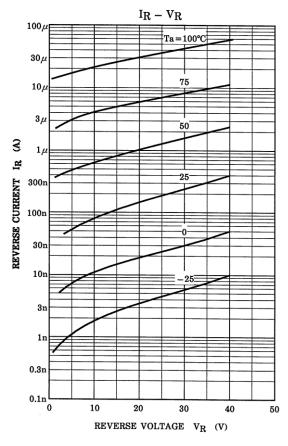
Equivalent Circuit (Top View)

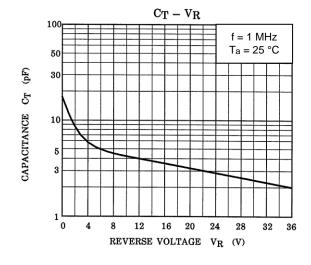


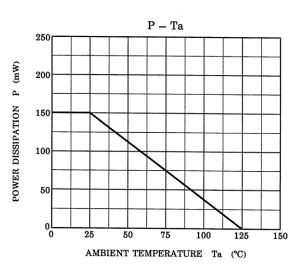
Marking











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